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ZAYTSEV, G.P.

Summaries of papers presented at the XXVI Congress of Surgeons of the USSR, Moscow, 20 - 27 January 1955, included:

Complications after Operations for Certain of the Most Wide-spread Surgical Diseases

G. P. ZAITSEV

SOURCE: [redacted]-A-46013 (Official Publication) Unclassified.

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2593 CONT.

struction can be of dynamic or of mechanical nature. The chief factor in the course of ileus is the disturbance in the nervous regulation, which causes an initial spastic and a subsequent paralytic stage. In the case of dynamic ileus the disturbance in the nervous regulation is attributable to 2 chief causes, viz: (1) a nutritional factor (hunger; nutritional dystrophy; over-eating or unsuitable diets), and (2) thrombosis of the mesenteric veins. In the initial spastic stage dynamic ileus can be distinguished from the mechanical form in that the latter is associated with increased defaecation (fluid stools) and flatulence, whereas in the former any form of evacuation of the intestine is immediately arrested. Bilateral lumbar procaine block according to Wischnewski can only be used in dynamic ileus; in the case of mechanical ileus it can have disastrous sequelae because the ileus is not controlled but only transient relief of the patient's complaints is effected; this may confuse both the patient and the therapist and cause loss of time before the required operation is performed.

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EXCERPTA MEDICA Sec.9 Vol.11/5 Surgery May 1957

ZAYTSEV, G.P.

2593. ZAJCEV G.P. * The problem of acute intestinal obstruction (Russian text) KHIRURGIJA (Mosk.) 1955, 1 (3-8)

In the past 10 years 473 patients were admitted with acute ileus; 51 of these died (10.7%); 303 underwent an operation, with 45 deaths (14.8%). The intestinal ob-

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ZAYTSEV, G.P., professor

New way of disinfecting the surgeon's hands with diocide.
Khirurgiia no.10:62-63 O '54.
(MIRA 8:1)

1. Iz kafedry obshchey khirurgii (zav.-prof. G.P.Zaytsev) II Moskovskogo med. instituta imeni I.V.Stalina
(ANTISEPSIS AND ASEPSIS
surg. soap diocide)
(SOAPS
surg., dicide)

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USSR/Medicine - Tissue Therapy Jul 51

"Tissue Therapy in the Surgical Clinic," Prof G. P. Zaytsev, Chair of Gen Surg, Second Moscow Med Inst im. N. Stalin

"Sov Med" No 7, pp 8-10

Discusses 2 yrs work on tissue therapy, treatment of surgical and nonsurgical diseases. Used pieces of skin taken from patients operated upon for nonmalignant diseases such as hernia, chronic appendicitis, benign tumors, etc., after careful examn including Wasserman test. The skin was kept (according to Filatov's method) under refrigeration at 4-5° C for 7 days in bottles with ground

204T41

USSR/Medicine - Tissue Therapy (Contd) Jul 51

stoppers. When needed it was sterilized at 120° C in an autoclave for 1 hr. A piece (2 x 3 cm) was implanted under the patient's skin, preferably on the thigh or the abdominal wall. There never were complications. Tissues prepd according to Rumyantsev's method in other Moscow establishments were not as effective and also more irritating. Tissue therapy was effective in the treatment of spontaneous gangrene: In this condition, the effect achieved by the treatment could be observed by injecting 10% $CaCl_2$ and establishing whether the patient experienced a burning sensation (pos test indicating restoration of function).

204T41

ZAYTSEV, G. P., Prof.

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STRELYAYEV, V.S., assistent; ZAYTSEV, G.P., aspirant

Dissipation of the characteristics of temporary static stability of glass reinforced plastics in connection with the effect of absolute dimensions and the nonhomogeneity of the stressed state. Izv. vys. ucheb. zav.; mashinostr. no.3:59-71 '64. (MIRA 17:7)

1. Moskovskiy aviatsionny tekhnologicheskiy institut.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

L 10797-65
ACCESSION NR: AP4057629

This is also true for the smooth specimens. However, the distribution of stress is nonhomogeneous in 35-16s specimens and does not depend on dimension or stress concentration. With a rise in temperature, the specimens loaded and notched at an angle to the axis of elongation symmetry showed a decrease in stress limit dispersion. Orig. art. has: 11 figures, 1 table, and 4 formulas.

ASSOCIATION: Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow Aviation Technological Institute)

SUBMITTED: 27Feb62 ENCL: 00

SUB CODE: MM NO REF SOV: 003 OTHER: 002

Card 2/2

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L 10097-63 EPA(s)-2/EWT(m)/BDS(c)/BPR/EWP(j)/T Pc-4/Pr-4/Pa-4/Pt-10
ACCESSION NR: AP4037609 S/0145/63/000/005/0059/0071

AUTHOR: Bilyenko, T. S. (Leningrad); Bychkov, D. N. (Leningrad)

TITLE: Dispersion characteristics of transient static strength of fiberglass in connection with absolute dimension effect and nonhomogeneity of stressed state

SOURCE: IVUZ, Mashinostroyeniye, no. 5, 1963, 59-71

TOPIC TAGS: stress limit, dispersion, stress concentration, confidence interval, statistical theory, notched specimen, elastic limit/AG-4s fiberglass, SS 10s fiberglass

ABSTRACT: The experimental results of the values of the short-time tensile strength of AG-4s and SS-10s fiberglass are discussed in connection with dimension effect, stress concentration, and temperature. The data are treated statistically in view of the large experimental scatter. Both smooth and notched specimens with 20-200 mm² cross sections were tested at normal temperatures and other specimens with 20-100 mm² cross sections were tested at 150°. Statistical evaluation was done on the basis of the law of normal distribution determined from given probability confidence level, confidence interval, and dispersion characteristics. The analysis indicated that the magnitude in stress limit dispersion in notched AG-4s specimens decreases with an increase in absolute dimension and in concentration coefficient.

Card 1/2

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$$\sum_{i=1}^{n} \frac{N_i}{N_f} = \sum_{i=1}^{n} D_i = 1,$$

and also the nonlinear method based on the equation derived above. It was found that for major damage accumulation at low stress levels ($D_1 > 0.7$) the two methods gave similar results, while for major damage accumulation at high stress levels ($D_2 > 0.7$) the nonlinear evaluation gave better results. An example is worked out for a strengthened fiber glass disk. Orig. art. has: 8 figures, 17 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT, MA

NO REF SOV: 006 OTHER: 003

Card 3/3

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[illegible] equation [illegible] an analytical successive approximation technique or by a graphical method with

$$n = \frac{\lg \frac{1}{\ldots}}{\lg \frac{N_1}{N_2}}$$

Values for the following types of fiber glass, had the experimental values listed (for a 30 mm specimen) [illegible] 17, 12-180 [illegible] 24, [illegible] 27,27-634 = 25. Conclusions: [illegible] with accounting [illegible] cross section? Constant prolonged loading experiments were performed on fiber glass [illegible] and two-stress-level (varying [illegible] 13.6 and 10.7 kg/mm²). Periodic loading (30-minute period) [illegible] was performed on a modified test machine [illegible]. The experimental

[illegible]

[illegible]

[illegible]

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[illegible] Section Machine

ABSTRACT: The strength and time to rupture of fiber glass laminations under prolonged constant or periodic loading conditions were investigated theoretically and experimentally. Based on a relation of working area decrease as a function of stress derived by L. M. Kachanov (O vremeni razrushaniya v usloviyakh polzuchesti. Izvestiya AN SSSR, OTN, No. 8, 1958), an equation for the accumulated damage is derived in the form

$$D = 1 - \sqrt[m+1]{(1 - D_{k_0})^{m+1} - [(1 - D_{k_0})^{m+1} - (1 - D_{k_n})^{m+1}] \frac{t_\sigma}{t_{p\sigma_n}}}$$

Card 1/3

L 48154-6

ACCESSION NR: AP5007075

3

(where m = material characteristic, D_{k_0} = D_{k_n} = damage at initial loading and at rupture respectively, evaluated as described by S. V. Serensen and O. F. Zaytsev: Prakticheskoye primeneniye resurshnogo ekspluatsionnogo [illegible]. Mekhanika polimerov, AN [illegible]

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deformation, but increase only the localization of stresses and deformations and more, the lower δ_s of the metal. There are 6 figures.

M. G. N.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

L 48116-66 EWT(m)/EWP(j)/EPA(w)-2/EWA(m)/EPF(c)/EWA(d)/EWP(v)/EPR/EWP(j)/T/EWP(k)/
EWP(t)/EWP(z) Pc-4/Pf-4/Pg-4/Pd-4/Pe-4/Pb-4 WW/JD

ACCESSION NR: AP5007707 S/0122/65/000/002/0052/0058

AUTHOR: Sergeyev, S. I. (Leningrad); Kuzhar, G. P. (Engineer)

TITLE: Prolonged loading rupture strength of fiber glass in view of accumulated damage

SOURCE: Vestnik mashinostroyeniya, no. 2, 1965, 52-58

TOPIC TAGS: fiber glass, fiber glass property, fiber glass fatigue, rupture strength, AG-4S fiber glass, 33 105 fiber glass, 2 120K fiber glass, 27 63S fiber glass, AG-4S fracture mechanics

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S/123/60/000/015/001/007
A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 15, # 78349

AUTHORS: Bondarev, Yu. Ye., Zaytsev, G. P.

TITLE: The Deformed Volume During Bending

PERIODICAL: Tr. Khim.-metallurg. in-ta, Zap.-Sib. fil., AN SSSR, 1958, No. 11, pp. 100-117

TEXT: Using standard Menage ("Menazhe") specimens, with and without notches, made of the steel grades 40X (40Kh), 38XMIOA (38KhMYuA), Cr 3 (St.3), Cr.20 (St.20) of Al, Cu and brass, the authors investigated the relation between the magnitude of the deformed volume during bending and the magnitude of uniform elongation during stretching (δ_s). In order to determine the magnitude of the deformed volume, a network of squares with a base of 1 mm was drawn with a needle on the lateral surfaces of all specimens prior to tests on the instrumental microscope. Curves of alterations of the deformed volume were plotted depending on the angle of bend of the specimens with and without notches. It is

Card 1/2

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ZAYTSEV, G.P.

Establishing constants of metal plasticity and strength. Fiz. met. i metalloved 5 no.2:293-303 '57. (MIRA 11:3)

1.Fiziko-metallurgicheskiy institut Zapadno-Sibirskogo filiala AN SSSR.

(Metals--Hardening) (Deformations (Mechanics))

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ILLEGIBLE

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G. P.

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Crystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6812

Author : Zaytsev, G.P.
Inst : Chemical-Metallurgical Institute of Western Siberian Branch of Academy of Sciences, USSR.
Title : Strength of a Metal and Unloaded Stresses of the Second Kind

Orig Pub : Fiz. metallov i metallovedeniye, 1956, 2, No 3, 494-503

Abstract : Equations are derived for the radial, congential, and maximum unloaded (internal) cleavage stresses of the second kind, occurring as a result of the difference of the coefficient of expansion of the phases when a two-phase metal is cooled. To simplify the problem it is assumed that spherical grains of one phase are surrounded by spherical shells of the second phase and that the ratio of their radii is known. In steel this ratio is determined by the carbon contents. From the calculation of the stresses occurring upon cooling of medium-carbon steel, the following follows: 1. Under the influence of unloaded stresses, the ferrite phase in the

Card : 1/2

Card : 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.P.

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3956

Author : Zaytsev, G.P.

Title : Relationships Between Different Characteristics of the Final Elastic-Plastic Deformation

Orig Pub : Fiz. metallov i metallovedeniye, 1956, 2, No 2, 351-356

Abstract : Relationships are given between various characteristics of the final elastic-plastic deformation under volume and linear stresses.

Card : 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.P.

USSR/Solid State Physics - Mechanical Properties of Crystals and Poly-Crystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 1106

Author : Zaytsev, G.P.

Inst :

Title : Vickers and Rockwell Hardness as Functions of the Parameter of Plasticity of the Metal Under Experimental Conditions.

Orig Pub : Fizika metallov i metallovedeniye, 1956, 2, No 2, 339-350

Abstract : It is shown that any hardness number is a function of the experimental condition and of the two parameters of plasticity of metals. The author gives also formulas and curves of practical importance in the calculation of the systematic areas, occurring during the measurement of hardness by the Vickers or Rockwell methods.

Card 1/1

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ZAYTSEV, G. P.

PA 160T77

USSR/Metals - Tensile Tests
Deformation

May 50

"Law of Mechanical Similarity in Deformation of Unlike Metals," G. P. Zaytsev, All-Union Sci Res Inst of Metrol imeni D. I. Mendeleyev, 9½ pp

"Zavod Lab" Vol XVI, No 5

Develops general solution for problem of mechanical similarity in application to bodies made of different metals. Describes and discusses two individual cases of deformation similarity: impression of ball into metals and tensile testing of metals.

[redacted]

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ZAMTSEV, G.P.

Determination of Plasticity Parameters of Metals by the Cone-Indentation Method. [illegible] and S. A. Smolich. (Zavodskaya Laboratoriya, [illegible], 1951, [illegible] 1383-1391). (In Russian). A method of assessing the plasticity of a metal by notish indentations on a polished surface of the metal is described. An equation is given relating the load on the cone, the diameter of the indentation and two plasticity parameters, one of which has the dimensions of stress the other being dimensionless. The equation holds when the angle of the cone is sufficiently large and when not much slip takes place over the surface of the cone.—S. K.

A-U Sci Res Inst. Metrology im. D. I. Mendeleyev

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ZAYTSEV, G. P.

Mbr., All-Union Sci. Res. Inst. Metrology im. D. I. Mendeleyev, -c1950-.

"Law of Mechanical Similarity in Deformation of Unlike Metals," Zavod. Lab., 16, No. 5, 1950.

"Determination of the Plasticity Parameters of Metals by the Cone-Impression Method," ibid., No. 11, 1950.

"Hertz's Problem and Its Test According to Brinell," Zhur. Tekh. Fiz., 19, No. 3, 1949.

Mbr., Inst. Construction Mechanics, Dept. Tech. Sci., Ukr. Acad. Sci.-c1949-.

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13

Problem of Hertz and the Brinell Test. (In Russian.) G. P. Zaitsev. *Zhurnal Tekhnicheskoi Fiziki* (Journal of Technical Physics), v. 19, Mar. 1949, p. 336-346.

Proposes a formula correlating the formulas of Hertz and Meyers. Because of the closed relationship of the parameters of elasticity and plasticity, the formula of Hertz and the modified formula give the same results when the maximum diameter of the imprint represents maximum elastic and minimum plastic imprint.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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17

Brinell Hardness as a Function of Plasticity Parameters of Metals. G. P. Zaitsev (*Zavod. Lab.*, 1949, **15**, (6), 704-717; *Appl. Mechanics Rev.*, 1950, **3**, 350).—[In Russian]. In the hardness test, the dia. of indentation d is related to the dia. of the ball D and applied load P by the empirical formula $P = a_0 d^n/D^{n-2}$, where a_0 (with dimensions of stress) and n (dimensionless) are characteristic quantities for the material. Z. attempts to relate these quantities to the tensile strength ($T.S.$) and uniform deformation, ε_0, in the simple tensile test. By means of an analysis of the local and average deformation in the indented area, he shows that a close parallelism exists between: (1) the stress-strain diagram in simple tension, and (2) the $H/a_0 - d/D$ diagram in the hardness test, where H is the Brinell hardness. On the basis of experimental data on a variety of metals, the following approx. relations are derived: $T.S. = 0{\cdot}37a_0$, $\varepsilon_0 = (n-2)/1{\cdot}13$, and $(Y.P.) = (T.S.)(2-n/2)(4\varepsilon)^{n-n/2}$. In the last formula ($Y.P.$) represents the offset yield point for a given offset, ε (e.g. 0·2%). In order to obtain n and a_0, two hardness tests must be performed. For example, using two different balls, 10 mm. and 5 mm. dia., two indentations (d_5 and d_{10}) are made under the same load P. Then $n = 0{\cdot}60206/(0{\cdot}30103 - \log d_{10}/d_5)$ and $a_0 = (P/D^n)(D/d)^n$.

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ZAYTSEV, G. P.

26383 K roprosu o svyazi tverdosti po brinelyu so staticheskimi kharakteristikami metalla. Sbornik trudov in-ta stroit. Mekhaniki (Akad. nauk ikr. ssr.), No. 11, 1949, s. 83-98.

SO: LETOPIS' NO. 35, 1949

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

THE CONSTRUCTION OF BALLISTIC TESTING MAC INES. G P Zaitsev. Zavodskaya Labor toriya. 1948, vol. 14, Nov. pp. 1356-1365. In Russian. The theory of ballistic testing machines is developed together with the theory of the physical pendulum; and on this basis estimates are made of the parasitic energy loss s in ballistic and ordinary testing machines. These losses are shown to be responsible for the large divergencies in values for the impact elasticity of a given substance when determined on different testing machines. Most of these losses take place through the elastic deformations occurring in the parts of the machine, the loss of energy through the base of the machine being negligible . On these grounds it is concluded that the ballistic machine has no advantag s in mechanical testing. The principle of the evaluation of the impact elasticity of slightly plastic metals is developed.

ASS.SLA METALLURGICAL LITERATURE CLASSIFICATION

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ZAYTSEV, G. P.

Zaytsev, G. P. "On the problem of the coefficient of hardening in the plastic deformation of metals", Sbornik trudov In-ta stroit. mekhaniki (Akad. nauk Ukr. SSR), Vol. X, 1948, (in index: 1949), p. 121-33.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

B-1-4

Radial Gauges of the plasticity of metals. G. P. Zaitsev (Eng. Rev. Acad. Sci. U.R.S.S., [illegible]).—The coeff. of work-hardening of a metal is a property of the metal and independent of its degree of deformation; the relative elongation before [illegible] of contraction in the course of [illegible] mechanical properties of metals [illegible] J. J. B.

[illegible] necking, can be used to describe the mechanical properties of metals and their change due to work-hardening. J. J. B.

COMMON ELEMENTS

OPEN

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

15-I-1

BC

(A) Slide-rule calculations for testing flat specimens. (B) Slide-rule calculation of transient resistance, σ_s, directly from the impression diameter. G. P. ZARNEV (Zavod. Lab., 1936, 5, 96, 97).—Mathematical. R. T.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

K-I-1

BC

Checking and regulation of the Brinell microscope. G. P. ZAITSEV (Zavod. Lab., 1930, 5, 95—96).—Methods are described. R. T.

COMMON ELEMENTS

OPEN MATERIALS INDEX

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24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215

Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva

Referaty nauchno-issledovatel'skikh rabot; sbornik No.2 (Scientific Research Abstracts; Collection of Articles, Nr 2) Moscow, Standartgiz, 1958. 139 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov, mer i izmeritel'nykh priborov.

Ed.: S. V. Reshetina; Tech. Ed.: M. A. Kondrat'yeva.

PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gages for the various industries.

COVERAGE: The volume contains 128 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIIM - Vsesoyuznyy nauchno-issledovatel'skiy metrologii imeni D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D.I. Mendeleyev) in Leningrad; Sverdlovsk branch of this institute; VNIIK - Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments), created from MGIMIP - Moskovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Moscow State Institute of Measures and Measuring Instruments) October 1, 1955; VNIIFTRI - Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physicotechnical and Radio-engineering Measurements) in Moscow; KhGIMIP - Khar'kovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments); and NGIMIP - Novosibirskiy gosudarstvenyy institut mer i izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments). No personalities are mentioned. There are no references.

Branch of VNIIM). Effect of Rigidity of the Dynamometer of Testing Machines on the Falling Portion of the Extension Diagram 60

Vandyshev, B.A., and F.S. Savitskiy (Sverdlovsk Branch of VNIIM). Determining Yield Points Without Using a Test Piece 61

Zaytsev, G.P., S.A. Smolich, L.V. Belorusheev, and I.N. Tylevich (VNIIM). Developing a Method for the Determination of Yield Points and Uniform Elongation Without Tensile Tests (the two-cone method)

Pressure Measurements (Dolinskiy, Ye.P., Editor, Candidate of Technical Sciences)

Gramenitskiy, V.N. (MGIMIP). Pressure Gage for Accurate Measuring in the Range of 0 to 4 Kilograms per Second per Square Centimeter 63

Burmakina, O.P. (Sverdlovsk Branch of VNIIM). Studying Pressure Measurement Errors by Means of a Depression Meter of the Kamarov-Geskin Type 64

Card 13/27

Zaytsev, G.P.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

126-5-3-13/31

Calculation of Diagrams of the Real Stresses of Work-Hardened Metal

values of the mechanical properties of the metal in this cross section can be determined from the diagram of the real stresses only by observing certain recommendations made at the end of the paper. This is particularly the case if the uniform elongation and contraction amounts to a fraction of a percent, which is a characteristic feature of rigid structural steels after hardening and low temperature tempering.
There are 9 figures and 7 references, all of which are Soviet.

ASSOCIATION: West Siberian Branch, Ac.Sc., USSR. (Zapadno-Sibirskiy Filial AN SSSR)

SUBMITTED: March 26, 1956 (initially)
July 20, 1956 (after condensation)

1. Metals--Stresses 2. Metals--Deformation 3. Metals--Mechanical properties 4. Stress analysis

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

AUTHOR: Zaytsev, G. P. 126-5-3-13/31

TITLE: Calculation of Diagrams of the Real Stresses of Work-Hardened Metal (Raschet diagramm istinnykh napryazheniy naklepannogo metalla)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol 5, Nr 3, pp 484-492 (USSR)

ABSTRACT: A method is described of constructing the diagrams of the real stresses in a work-hardened metal if such a diagram is available for the non-work-hardened state and the magnitude is known of the deformation produced during the work-hardening. This is made on the accepted belief that the degree of hardening, which determines the mechanical properties of the work-hardened metal, depends solely on the deformation in the cold state and does not depend on the stress state which caused it. In plotting diagrams of real stresses on the basis of experimental data it is necessary to take into consideration that the mechanical properties of the metal will always differ somewhat in the various cross sections of the specimen. Therefore, the curves of the real stresses have to be plotted for any cross section of the specimen. The correct

Card 1/2

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126-2-14/35

On the problem of determining the constants of plasticity and strength of metals.

the deformations inside the volume.
There are 6 figures and 11 references, all of which are Slavic.

SUBMITTED: December 15, 1956 (Initially), October 15,1956 (after revision).

ASSOCIATION: Chemical-Metallurgy Institute, West Siberian Branch of the Ac.Sc. U.S.S.R.
(Khimiko-Metallurgicheskiy Institut Zapadno-Sibirskogo Filiala AN SSSR).

AVAILABLE: Library of Congress.

Card 3/3

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126-2-14/35

On the problem of determining the constants of plasticity and strength of metals.

elastic as well as in the plastic range. Within the limits of the given phase and physical state of the metal, the dimensionless constants of elasticity and plasticity do not react to changes in the temperature. The independence of some constants of plasticity and strength on the degree of preliminary deformation in the cold state of the metal permits the calculation of all the mechanical characteristics of any work hardened (cold rolled) metal, provided the degree of cold working and the mechanical constants are known which characterize the metal in the non-cold worked state. Knowledge of the mechanical constants determined from tensile tests also permits calculation of the hardness and in some cases also of the impact strength. The facts enumerated in the paper lead to the conclusion that it is possible to evolve a plasticity theory which takes into consideration the mechanical properties of the metals by means of two plasticity constants of which one is a dimensionless constant and determines the dimensions and shape of the

Card 2/3 plastic deformation of the volume and the distribution of

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

Zaytsev, G. P.

126-2-14/35

AUTHOR: Zaytsev, G. P.

TITLE: On the problem of determining the constants of plasticity and strength of metals. (K voprosu o stanovlenii konstant plastichnosti i prochnosti metallov).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, pp. 293-303.(USSR).

ABSTRACT: The author presents and justifies a rational selection of constants of plasticity and strength of metals and outlines a possibility for evolving a plasticity theory, which takes into consideration the individual mechanical properties of metals by means of two constants (plasticity parameters). He arrives at the following conclusions: the mechanical properties of metals which have not been work hardened are determined by means of five mutually independent mechanical constants which comprise two elasticity constants, two plasticity constants and one strength constant. The mechanical constants can be sub-divided into dimensional and dimensionless ones, whereby the dimensional ones reflect the relation between stresses and strains. The dimensionless elasticity and plasticity constants determine the position of the strain tensor on the deviator and on the spherical tensor in the

Card 1/3

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Use of biometric methods in phytogeography. Bot. zhur. 49 no.9:1248-1261 S '64. (MIRA 17:12)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ACC NR: AR6028078 (N) SOURCE CODE: UR/[illegible]4/66/000/005/B062/B062

AUTHOR: Zaytsev, G. N.

TITLE: Wind flows in the Norwegian and Greenland oceans

SOURCE: Ref. zh. Mekhanika, Abs. 5B378

REF SOURCE: Tr. Vses. n.-i. in-t morsk. rybn. kh-va i okeanogr., v. 57, 1965, 21-31

TOPIC TAGS: ocean current, ocean property, ocean dynamics

ABSTRACT: Based on the known fields of atmospheric pressure, the author constructed charts of the total flows in the Norwegian and Greenland oceans (multi-year average for each individual month and multi-year average for the whole year, as well as charts for individual moments in time). These charts are compared with the generally accepted charts of steady currents in the Norwegian and Greenland oceans. Substantial differences were detected, particularly in the charts for individual moments of time. The conclusion is reached that the wind component must be included in constructing the flow charts for this region. V. M. Kamenkovich [Translation of abstract]

SUB CODE: 08

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

FEDOSOV, M.V.; ZAYTSEV, G.N.

Water masses of the Baltic Sea. TRUDY VNIRO 46:124-128 '62.
(MIRA 15:10)

(Baltic Sea—Water—Composition)
(Baltic Sea—Phytoplankton)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

MARTI, Yu.Yu., otv. red.; ALEKSEYEV, A.P., zam. otv. red.; NOSKOV, A.S., zam. otv. red.; BORODATOV, V.A., red.; VINOGRADOV, L.G., red.; ZAYTSEV, G.N., red.; IZHEVSKIY, G.K., red.; KAZANOVA, I.I., red.; KONSTANTINOV, K.G., red.; MUNTYAN, V.M., red.; NAUMOV, V.M., red.; SEDYKH, K.A., red.; FEDOSOV, M.V., red.; CHUMAKOVA, L.S., red.; AYNZAFT, Yu.S., red.; MUKHINA, Ye.M., red.; FORMALINA, Ye.A., tekhn. red.

[Soviet fishery research in the northwestern part of the Atlantic Ocean] Sovetskie rybokhoziaistvennye issledovaniia v severo-zapadnoi chasti Atlanticheskogo okeana. Moskva, Izd-vo zhurnala "Rybnoe khoziaistvo," 1962. 375 p. (MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii. 2. Vsesoyuznyy nauchnyy institut morskogo rybnogo khozyaystva i okeanografii (for Marti, Fedosov).
(Atlantic Ocean--Fisheries--Research)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N., kand.geograficheskikh nauk

Norwegian Sea. Mor. sbor. 44 no.5:21-34 My '61. (MIRA 16:5)
(Norwegian Sea)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.; POGOREL'SKIY, N.S.; SMIRNOV, A.A.; FOMIN, V.M.; SHAGOYANTS, S.A.

New data on carbonated underground waters in the region of Caucasian Mineral Waters. Sov. geol. 4 no.1:89-97 Ja '61. (MIRA 14:1)

1. Ministerstvo geologii i okhrany nedr SSSR, Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii, Glavgeologiya RSFSR i Severo-Kavkazskoye geologicheskoye upravleniye.
(Caucasus--Mineral waters)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Water exchange between the Arctic Basin and the Pacific and Atlantic Oceans. Okeanologiia 1 no.4:743-744 '61. (MIRA 14:11)
(Arctic regions--Ocean currents)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

FEDOSOV, M.V., kand. khimicheskikh nauk; ZAYTSEV, G.N., kand. geograficheskikh nauk

Water balance and chemical regimen of the Baltic Sea and its gulfs. Trudy VNIRO 42:7-14 '60. (MIRA 13:9)
(Baltic Sea--Water--Composition)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.; POTAYCHUK, S.I.

Second cruise of the research ship "Sevastopol" in the Norwegian Sea under the program of the International Geophysical Year. Biul. Okean.kom. no.6:50-54 '60. (MIRA 14:7)
(Norwegian Sea--Oceanographic research)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

"Thermic Balance of the Active layer of the Norwegian Sea.

[All-Union Scientific Research Institute of Marine Fishing and Oceanography]

report to be presented at the 12th General Assembly of the International Union of Geodesy and Geophysics, Helsinki, Finland, 25 Jul- 6 Aug 1960.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

MARTI, Yu.Yu., otv.red.; MASLOV, N.A., zam.otv.red.; ALEKSEYEV, A.P., red.; VINOGRADOV, L.G., red.; DMITRIYEV, N.A., red.; ZAYTSEV, G.N., red.; KONSTANTINOV, K.G., red.; MUNTYAN, V.M., red.; CHUMAKOVA, L.S., red.; YUDANOV, I.G., red.; LANDA, N.G., red.; AYNZAFT, Yu.S., red.; KLYACHKO, I.I., red.; UKRAINTSEVA, D.V., tekhn.red.

[Soviet fisheries investigations in North European seas] Sovetskie rybokhoziaistvennye issledovaniia v moriakh Evropeiskogo Severa. Moskva, Rybnoe khoziaistvo VNIRO, 1960. 468 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (for Marti, Dmitriyev, Zaytsev). 3. Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (for Maslov, Alekseyev, Yudanov).
(Fisheries--Research)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

LANDA, N.G., red.; ZAYTSEV, G.N., spetsredaktor; UKRAINTSEVA, D.V., tekhn. red.

[Problems concerning the fishery productivity of seas] Voprosy promyslovoi produktivnosti morei. Moskva, 1960. 55 p. (MIRA 14:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii.
(Marine biology)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N., kand.geogr.nauk; FEDOSOV, M.V., kand.khim.nauk

Vertical mixing and formation of the hydrochemical regimen of the upper water layer in the Central and Southern Caspian. Trudy VNIRO 38:134-141 '59. (MIRA 13:4)
(Caspian Sea--Water--Composition)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G. N.

"Preparation of Dynamic Charts for Seas with a Complex Pattern of Tidal Circulation (featuring the Norwegian Sea)",

paper presented at the 45th Meeting of the Intl. Council for the Exploration of the Sea, Bergen, Norway, 30 Sept - 3 Oct 57.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G. N.

USSR/Oceanography
Publications

Jan 49

"Review of N. N. Zubov's Book, 'Dynamic Oceanology,'" V. A. Lednev, G. N. Zaytsev, 1 p

"Priroda" No 1

Favorable review of subject book, which treats oceanology as a natural science rather than pure physics as did Prof V. A. Beryozkin in his book, "Dynamics of the Sea."

PA 47/49T100

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

LAYSEV, G.M.

Use of [illegible] formula in regional [illegible] . [illegible].
mat. metod. v biol. no.3:102-104 '64.
(MIRA [illegible])

1. Botanicheskiy institut AN SSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N., kand.biol.nauk

Interaction of sprouting seeds of the Norway maple and black locust. Priroda 49 no.10:86-87 O '60. (MIRA 13:10)
(Maple) (Locust (Tree))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ARTYUSHENKO, Z.T.; GUSEV, Yu.D., kand.biolog.nauk; ZAYTSEV, G.N.; ZAMYATNIN, B.N.; KNORRING-NEUSTRUYEVA, O.E.; PIDOTTI, O.A.; PILIPENKO, F.S.; POLYAKOV, P.P.; RODIONENKO, G.I.; SELIVANOVA-GORODKOVA, Ye.A.; SOKOLOV, S.Ya., prof., doktor biolog.nauk; SMIRNOVA, A.V., tekhn.red.

[Trees and shrubs of the U.S.S.R.; wild and cultivated, and the prospects for introduction] Derev'ia i kustarniki SSSR; dikorastushchie, kul'tiviruemye i perspektivnye dlia introduktsii. Moskva, Izd-vo Akad.nauk. Vol.6. [Angiosperms: Loganiceae-Compositae] Pokrytosemennye semeistva, Loganievye - Slozhnotsvetnye. 1962. 378 p. (MIRA 15:5)

1. Akademiya nauk SSSR. Botanicheskiy institut.

(Trees) (Shrubs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Relationship between fruit weight and the beginning of fruiting in apple varieties exhibiting vigorous growth. Bot. zhur. 45 no.10:1511-1516 O '60. (MIRA 13:11)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad.

(Apple)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Introducing honeysuckle in Leningrad. Trudy Bot. inst. Ser. 6 no.8:184-275 '62. (MIRA 15:7)

(Leningrad—Honeysuckle)
(Plant introduction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

BRAYLOVSKIY, N.S.; ZAYTSEV, G.N.

Substituting bitumen for solders in the sealing of containers filled with products. Prom. khim. reak. i osobo chist. veshch. no.1:44-45 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Germination of honeysuckle seeds after storage of different duration. Bot. zhur. 48 no.11:1698-1701 N '63. (MIRA 17:4)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Some regularities of variations in the level and salinity of the northern part of the Caspian Sea over a period of several years. Okeanologiia 5 no.2:276-285 '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii, laboratoriya promyslovoy okeanografii.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Wind currents of the Norwegian and Greenland Seas. Trudy VNIRO 57:21-31 '65. (MIRA 18:6)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ACC NR:AP6031294 (N) SOURCE CODE: UR/0375/66/000/009/0061/0068

AUTHOR: Zaytsev, G. N. (Candidate of Geographic Sciences)

ORG: None

TITLE: The northern part of the Atlantic Ocean

SOURCE: Morskoy sbornik, no. 9, 1966, 61-68

TOPIC TAGS: oceanography, weather forecasting, climate, economics, political geography

ABSTRACT: The natural features of the northern part of the Atlantic Ocean, designated as that area from the equator to Greenland and Iceland in the north, are described in general fashion. Bottom relief, climate, atmospheric pressure, prevailing winds, storms, fog, air and water temperatures, salinity and density distribution, as well as currents, tides, wave motion, transparancy and color are discussed separately. The political and economic importance of the area is stressed. Orig. art. has: 4 figures and 5 tables.

SUB CODE: 08/SUBM DATE: None

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

On the 250th anniversary of the Botanical Garden of the Academy in Leningrad. Biul.Glav.bot.sada no.58:115-122 '65. (MIRA 18:12)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Ornamental species of honeysuckle. Biul.Glav.bot.sada. no.58:50-56 '65. (MIRA 18:12)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Results of introducing honeysuckel species in Leningrad. Biul. Glav.bot.sada no.33:18-28 '59. (MIRA 12:10)

1. Botanicheskiy sad Botanicheskogo instituta im. V.L.Komarova Akademii nauk SSSR.
(Leningrad--Honeysuckle) (Plant introduction)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Significance of seed characters for the systematics of the genus Lonicera L. Bot. zhur. 43 no.6:836-840 Je '58. (MIRA 11:7)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad.
(Honeysuckle) (Seeds--Morphology)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G. N. Cand Biol Sci -- (diss) "Results of the introduction of the Lonicera-L. family species in Leningrad." Len, 1958. 22 pp (Acad Sci USSR. Botanical Inst im V. L. Komarov), 175 copies (KL, 52-58, 100)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

On the problem of the time of introduction of certain species of Lonicera L. into cultivation. Bot.zhur.42 no.2:292-293 F '57. (MLRA 10:3)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR. (Leningrad--Honeysuckle) (Plant introduction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

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ZAYTSEV, G. N.

USSR/Biology (Agriculture) - Antibiotics Sep 51

"Action of Phytoncides of Padus racemosa (Lam.) on Fungi," G. N. Zaytsev

"Priroda" 40 No 9, p 58

Found that the phytoncides of opening buds of plant in question exert a toxic effect on Penicillium sp. and Coniophora cerebella. B. P. Tokin previously established that phytoncides of this plant are extremely toxic to various one-celled organisms and to insects.

211T13

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

RODIONOVA, Alla Sergeyevna, kand. biol. nauk; ANDRONOV, N.M., dots., retsenzent; ZAYTSEV, G.N., kand. biol. nauk, retsenzent; BEZGODOVA, L.V., red.; URITSKAYA, A.D., tekhn. red.

[Botany] Botanika; uchebnoe posobie dlia studentov lesokhoziaistvennogo fakul'teta. Leningrad, Vses.zaochnyi lesotekhn. in-t, 1962. 201 p. (MIRA 16:2)

(Botany)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

GERSHANOVICH, D.Ye., kand. geologo-miner. nauk; ZAYTSEV, G.N., kand. geogr. nauk

The Yellow, East China, and South China Seas. Mor. sbor. 47 no.12:27-35 D '63. (MIRA 18:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.N.

Oceanographic studies in the Norwegian Sea in accordance with the plans of the IGY-IGC. TRUDY VNIRO 46:6-13 '62. (MIRA 15:10)
(Norwegian Sea—Oceanography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.M., inzh.; ZAYTSEVA, V.V., inzh.

Experimental apartment house on a pile foundation. Biul.tekh.inform. 4 no.11:23-24 N '58. (MIRA 11:12)
(Piling (Civil engineering)) (Foundations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

Removal of Bricks Which Have Sunk in in the Vault of a Tunnel Furnace SOV/72-59-8-14/17

resulted in great production losses.

ASSOCIATION: Leningradskiy farforovyy zavod "Proletariy" (Leningrad Chinaware Plant "Proletariy")

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

15 (2)

AUTHORS: Smirnov, V. V., Chesnovetskiy, M. Ya., Zaytsev, G. K.

SOV/72-59-8-14/17

TITLE: Removal of Bricks Which Have Sunk in in the Vault of a Tunnel Furnace (Ustraneniye kirpichey, prosevshikh v svode tunnel'noy pechi)

PERIODICAL: Steklo i keramika, 1959, Nr 8, pp 46-47 (USSR)

ABSTRACT: At the beginning of the current year 3 bricks sank in in the Dinas vault of a tunnel furnace in the zone of maximum temperatures at the Leningrad chinaware plant "Proletariy". This meant that in this particular place the furnace vault was lowered by 120-150mm, so that the piling height of the lorries had to be diminished. This, however, was of no avail either, since it upset the working conditions of the furnace. It was tried to break out the bricks by means of a ram lorry, but the attempt was unsuccessful. The authors of the present article suggested to shoot the bricks down with a military rifle, which was then carried out within an hour. In this way it was not necessary to stop the operation of the furnace, which would have

Card 1/2

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RASPOPOV, V.I., konstruktor; SUKACH, A.D., konstruktor; D'YACHENKO, K.I., konstruktor; LITVINOV, G.A., konstruktor; GOL'DSHTEYN, M.Ya., konstruktor; MOGILEVSKIY, L.G., konstruktor; ZAYTSEV, G.I., konstruktor; BURLYGA, F.I., red.; SAMOLETOVA, A.V., tekhn. red.

[New equipment unit on pitching seams] Novyi kompleks na krutopadaiushchikh plastakh. Stalino, Knizhnoe izd-vo Stalino-Donbas, 1961. 56 p. (MIRA 16:6)
(Coal mining machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

S/123/60/000/010/007/011
A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 10, p. 131, # 49833

AUTHORS: Zaytsev, G.I., Oreshkin, V.D.

TITLE: On the Nitrided Surface Quality of 38XMIOA (38KhMYuA) Grade Steel

PERIODICAL: Tr. Khim.-metallurg. in-ta. Zap.-Sib. fil AN SSSR, 1958, No. 11, pp. 47-50

TEXT: The authors investigated the effect of metal impurity degree by non-metallic inclusions and interlacing by the surface of metal fibers on the quality of the nitrided surface of components, made of 38KhMYuA grade steel, after grinding and polishing. There are 5 figures.

I.N.N.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

L 35884-66

ACC NR: AP6024514

disulfide, carbon tetrachloride, benzophenone, and salol at room temperature, a symmetrical scattering indicatrix is observed. The ratio z_2 is equal to 0.81 when the liquid is excited with polarized light and 0.98 for natural light. The results are interpreted in light of the short-range order of the molecules and the correlation of their oriented motion, but it is still impossible to present a quantitative explanation of the results. The authors thank I. L. Fabelinskiy for direction of the work. [02]

Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 14May66/ ORIG REF: 004/ ATD PRESS: 5037

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

L 35884-66 EWT(1)/EWT(m)/EWP(1) RM

ACC NR: AP6024514

SOURCE CODE: UR/0386/66/004/002/0054/0057

AUTHOR: Zaytsev, G. I.; Starunov, V. S.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR)

TITLE: Angular distribution of intensity in the thermal wing of the Rayleigh line in liquids

SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966, 54-57

TOPIC TAGS: spectral distribution, light scattering, Rayleigh scattering, luminescent material, fluorescence spectrum, light polarization, complex molecule

ABSTRACT: The authors have investigated the spectral distribution of the intensity of scattered light in the wing of the Rayleigh line in the frequency interval 0 - 100 cm^{-1} from the undisplaced line in benzene, carbon disulfide, toluene, carbon tetrachloride, salol, and benzophenone at scattering angles 60, 90, and 120°. The measurements were made with apparatus described earlier (Optika i spektroskopiya v. 19, 800, 1965), with the fluorescence of a solution of quinine sulfate serving as the reference. The measurements consisted essentially of determining the intensity ratios for 60 and 120° (z_1) and for 90 and 120° (z_2). For benzene, z_1 was equal to unity in the frequency interval 0 - 20 cm^{-1} and increased slowly from 20 to 90 cm^{-1}. A similar relation was observed for toluene at room temperature and for salol at 120C. For carbon

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

L 36927-66

ACC NR: AP6012221

examination, with simple bending of a rotating sample, may be taken approximately as equal to 140 kgf/cm^2 in a parallel direction and 100 kgf/cm^2 in a perpendicular direction. These results are said to be only approximate but suitable for use in calculations. Orig. art. has: 2 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

L 36927-66 EWT(d)/EWP(e)/EWT(m)/EWP(v)/EWP(k)/EWP(h)/EWP(l) WW/WH

ACC NR: AP6012221 SOURCE CODE: UR/0032/66/032/004/0459/0462

AUTHOR: Barabanov, V. N.; Anufriyev, Yu. P.; Zaytsev, G. G.; Pimkin, M. Ya.

ORG: none

TITLE: Description of the method and the results of fatigue tests on graphite with alternating bending

SOURCE: Zavodskaya laboratoriya, v. 32, no. 4, 1966, 459-462

TOPIC TAGS: fatigue strength, graphite

ABSTRACT: Material for the tests was high density construction graphite (γ = 1.78-1.9 grams/cm^2). The tests were carried out in a type MUI-6000 machine, at room temperature, with a symmetrical cycle. The diameter of the working section was taken as 15 mm. This was based on an attempt to increase the initial strength of the sample, and, at the same time, to decrease the relative error of the determination of the fatigue limit and to decrease the scatter of the experimental data, which increases with an increase in diameter. Results of testing samples with a cylindrical working section are shown in a figure. According to the experimental data, the fatigue limit for the construction graphite under

UDC: 620.178.32

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

LIVENTSEV, V.B.; MUSHNIKOV, G.A.; ZAYTSEV, G.G.; BARABANOV, V.N.; ARGUNOV, Yu.P.

Investigating certain properties and the mechanism of the information of graphite. Konstr. uglegraf. mat. no.1:175-189 '64.

(MIRA 17:11)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.G.

Improve the organization of transporting cotton wool. Tekst. prom. 18 no.9:5-7 S '58. (MIRA 11:10)

1. Nachal'nik Transportnogo otdela Glavlegsbytsyr'ye pri Gosplane SSSR.

(Cotton--Transportation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.G.

DOBROVOL'SKIY, N.D., gornyy inzhener.; ZAYTSEV, G.G., gornyy inzhener.; BYBIN, F.F., gornyy inzhener.; SHILOV, P.G., gornyy inzhener.

New alternative to the ore storage system for lode mining in unstable rock. Gor. zhur. no.2:7-9 F '57. (MIRA 10:4)
(Mining engineering)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZIL'BERFARB, P.M., inzh.; ZAYTSEV, G.G., inzh.

Using cement-perlite and lime-perlite binder in the manufacture of perlite-concrete products. Sbor.trud. ROSNIIMS no.25:120-134 '62 (MIRA 17:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

SPASOKUKOTSKIY, Oleg Konstantinovich; kand. tekhn. nauk;
SUD-ZLOCHEVSKIY, Andrey Ivanovich, kand. tekhn. nauk;
ZAYTSEV, G.F., kand. tekhn. nauk, retsenzent

[Elements of electrical automatic control] Elementy elektroavtomatiki. Kiev, Tekhnika, 1965. 255 p.
(MIRA 18:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

PHASE I BOOK EXPLOITATION SOV/4526

Soveshchaniye po teorii invariantnosti i yeye primeneniyu v avtomaticheskikh ustroystvakh. Kiyev, 1958

Teoriya invariantnosti i yeye primeneniye v avtomaticheskikh ustroystvakh; trudy soveshchaniya (Theory of Invariance and Its Applications to Automatic Devices; Transactions of the Conference Oct. 16-20, 1958) Moscow, 1959. 381 p. No. of copies printed not given.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Otdeleniye tekhnicheskikh nauk.

Resp. Ed.: V.S. Kulebakin, Academician; Editorial Commission: V.A. Bodner, Doctor of Technical Sciences, A.G. Ivakhnenko, Doctor of Technical Sciences, A.Yu. Ishlinskiy, Academician, Academy of Sciences USSR, N.A. Kachanova, Candidate of Technical Sciences, F.I. Kuznetsov, Doctor of Physics and Mathematics, A.I. Kukhtenko, Doctor of Technical Sciences, B.N. Petrov, Corresponding Member, Academy of Sciences USSR, Ye.P. Popov, Doctor of Technical Sciences, G.M. Ulanov, Doctor of Technical Sciences, K.K. Khrenov, Academician, Academy of Sciences UkrSSR, F.I. Chinayev, Candidate of Technical Sciences, and N.M. Chumakov, Candidate of Technical Sciences; Tech. Ed.: G.V. Kruglov.

PURPOSE: This collection of papers is intended for engineers and other specialists working in various fields of automation.

COVERAGE: The collection includes reports and papers presented at the Conference on the Theory of Invariance and Its Applications to Automatic Devices, which was called by the Otdeleniye tekhnicheskikh nauk (Department of Technical Sciences) and the Institut elektrotekhniki (Institute of Electrical Engineering) of the Academy of Sciences of the Ukraine and convened in Kiyev October 16 - 20, 1958. The papers presented are concerned with high-quality automatic control systems designed on the basis of compensating for the effects of disturbances or maintaining the invariance of the quality to be regulated with respect to the disturbances acting on the system. The reports treat the physical and mathematical foundations of invariance in automatic control systems, they also consider methods for designing and calculating invariant systems and problems connected with specific cases of practical applications of compensation in various automatic systems. On the basis of these reports it was established by the Conference that, by utilization of the conditions of compensation and the principle of invariance, it is possible to produce automatic systems and various arrangements which are more perfect from the viewpoint of quality of the regulation and control process, stability, simplicity of construction, and reliability of operation. The following members of the Kiyev Seminar on Automatic Control are mentioned as organizers of the conference: A.I. Kukhtenko, A.G. Ivakhnenko, Yu.G. Kornilov, O.M. Aryzhanovskiy, N.M. Chumakov, N.A. Kachanova, and F.I. Chinayev. References accompany each article.

23. Dekhtyarenko, P.I. On Boosting in Servosystems With Constant Speed of the Servoelement 320

24. Zaytsev, G.F. Wide-Band A-C Differentiator for Automatic Control Systems 331

25. Karagushin, L.V. On Application of the Theory of Invariance in an Automated Electric Drive 346

Section D. Invariance in Other Systems and Devices

26. Pospelov, G.S. Invariance of Certain Coordinates in Automatic Control of Aircraft 352

27. Dvadnenov, N.G. Flight Control With the Aid of Discrete Signals 359

28. Kochayev, G.K. Temperature Regulator With Thermal Resistance Reacting on the External Disturbance 364

Resolution of the Conference Regarding the Theory of Invariance and Its Application to Automatic Devices 375

Decree of the Office of the Presidium, Academy of Sciences USSR 379

Conclusion of the Commission in Connection With the Discussion of the Theory of Invariance 380

ZAYTSEV, G.F.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.F. (Kiiv). G. F.

A new type of wide-band alternating current differentiator for automatic control systems [with summary in English]. Avtomatyka no.4:67-85 '57. (MIRA 11:1)

(Automatic control)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.F

ZAYTSEV, G.F. (Kiyev).

Methods of regulating the equivalent transfer function adjusting T-type RC-carrier frequency circuits [with summaries in Russian and English]. Avtomatyka no.2:49-69 '57. (MLRA 10:8)
(Electric circuits) (Servomechanisms)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.F.

S/102/62/000/003/005/005
D234/D308

9.3200

AUTHOR: Zaytzev, H.F. (Kiyev)

TITLE: Approximate equivalent logarithmic frequency characteristics of a symmetrical double T-shaped RC circuit of carrier frequency with active load

PERIODICAL: Avtomatyka, no. 3, 1962, 81-84

TEXT: The author derives approximate expressions for the equivalent transfer function of the circuit in question, without or with a voltage divider. Approximate and exact equivalent amplitude frequency and phase frequency characteristics are compared graphically. The expressions make it possible to design circuits with given equivalent amplitude characteristic in a simple way. There are 4 figures and 1 table.

SUBMITTED: November 26, 1959

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.F. [Zaitsev, H.F.] (Kiyev)

Approximate equivalent logarithmic frequency characteristics of a symmetrical double T-shaped RC stage of a carrier with active load. Avtomatyka 7 no.3:81-84 '62. (MIRA 15:6)

(Radio)
(Radio circuits)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ZAYTSEV, G.F. (Kiyev); OGULOV, M.P. (Kiyev)

Wide-band phase-sensitive capacitive a.c. differentiator. Avtom. i telem. 25 no.1:121-130 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ACCESSION NR: AP4011322

diagrams of single-ended and push-pull circuits are shown in Fig 1 (see Enclosure 1). The new differentiator has a low-resistance output which permits its direct connection to d-c amplifiers and other low-Z-input devices. Orig. art. has: 7 figures and 25 formulas.

ASSOCIATION: none

SUBMITTED: 26Nov62 DATE ACQ: 14Feb64 ENCL: 01

SUB CODE: GE NO REF SOV: 005 OTHER: 001

Card 2/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

ACCESSION NR: AP4011322 S/0103/64/025/001/0121/0130

AUTHOR: Zaytsev, G. F. (Kiev); Ogulov, M. P. (Kiev)

TITLE: Wideband phase-sensitive capacitor-type a-c differentiator

SOURCE: Avtomatika i telemekhanika, v. 25, no. 1, 1964, 121-130

TOPIC TAGS: differentiator, ac differentiator, phase sensitive differentiator, capacitor type ac differentiator, broadband ac differentiator, wideband ac differentiator

ABSTRACT: A theoretical investigation of a capacitor-type differentiator is presented whose output is proportional to the derivative of a modulating signal in an AM or FM carrier-voltage scheme. The differentiator also acts as a phase discriminator. At variance with the inductor-type, this differentiator is based on a capacitor and a diode valve (rectifier) with the claimed advantages of "smaller size, simpler design and manufacture, and lower cost." Simplified circuit

Card 1/3

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6

CHINAYEV, P.I.; ZAYTSEV, G.F., kand. tekhn. nauk, retsenzent; SUD-ZLOCHEVSKIY, A.I., red.; BARANOVA, Z.S., red. izd-va; UVAROVA, A.F., tekhn. red.; MAKAROVA, L.A., tekhn. red.

[Self-adoptive systems; their calculation and design] Samonastraivaiushcniesia sistemy; raschet i proektirovanie. Moskva, Mashgiz, 1963. 302 p. (MIRA 17:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100031-6